

Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1-4. (canceled)

5. (currently amended) ~~Device A device~~ for heating a material constituted at least in part by worn road coatings to be recycled, comprising:

a first enclosed chamber ~~provided with mechanical transfer means~~ having an upper portion and a lower portion, an inlet in the upper portion for receiving the worn road coatings to be recycled, an outlet in the lower portion for discharging the worn road coatings from the first enclosed chamber, a means for transferring the worn road coatings to be recycled from the inlet to the outlet, the means for transferring comprising inclined conveyors or inclined transfer screens, a means for ~~radiant heating of the radiant type that is arranged to cause the worn road coatings to be recycled,~~ the means for radiant heating providing sufficient heat to reach a first temperature between 105 and 130°C and to render bitumen therein viscous, and a means for evacuating gaseous effluents from the first enclosed chamber;

a second enclosed chamber ~~provided with mechanical transfer means~~ having an upper portion and a lower portion, an

inlet in the upper portion for receiving the worn road coatings  
discharged from the first enclosed chamber, an outlet in the  
lower portion for discharging the worn road coatings from the  
second enclosed chamber, a means for transferring the worn road  
coatings to be recycled from the inlet to the outlet, the means  
for transferring comprising inclined conveyors or inclined  
transfer screens, a means for radiant heating of the radiant type  
~~that is arranged to cause~~ the worn road coatings from said first  
enclosed chamber introduced to the inlet of the second enclosed  
chamber, the means for radiant heating providing sufficient heat  
to reach a second temperature between 160 and 220°C, and a means  
for ~~evacuation of~~ evacuating gaseous effluents from the second  
chamber; and

a means for agglutinating the heated worn road coatings,  
disposed at [[an]] the outlet of the first enclosed chamber.

6. (canceled)

7. (currently amended) ~~Device~~ The device according to  
claim 5, wherein each of the first and second enclosed chambers  
~~comprises~~ is a substantially parallelepipedal enclosed chamber  
and wherein the ~~mechanical transfer~~ means for transferring in  
each of the first and second enclosed chambers further comprise  
~~inclined and/or horizontal conveyors provided with~~ a means for  
vibrating the inclined conveyors or inclined transfer screens,

and wherein said means for radiant heating of the ~~radiant type~~  
comprises panels.

8. (canceled)

9. (currently amended) ~~Device~~ The device according to  
claim 5, further comprising decomposition catalysts means for  
treating the gaseous effluents emitted from the second enclosed  
~~chamber, including composition catalysts.~~

10-14. (canceled)

15. (new) The device according to claim 7, wherein the  
means for transferring further comprises horizontal conveyors.

16. (new) A device for heating a material constituted  
at least in part by worn road coatings to be recycled,  
comprising:

a first enclosed chamber for heating worn road coatings  
to a first temperatures between 105 and 130°C and to render  
bitumen therein viscous, the first enclosed chamber having an  
inlet at an upper portion and an outlet at a lower portion, a  
plurality of inclined conveyors disposed between the inlet and  
the outlet such that worn road coatings are transferred from one  
conveyor to another in a continuous manner from the inlet to the

outlet, radiant heat panels being positioned proximate to the plurality of inclined conveyors for achieving the first temperature, and an opening in the upper portion for evacuating gaseous effluents;

a conveyor disposed at the outlet of the first enclosed chamber for agglutinating the heated worn road coatings;

a second enclosed chamber for heating the heated and agglutinated worn road coatings to a second temperatures between 160 and 220°C, the second enclosed chamber having an inlet for receiving the heated and agglutinated worn road coatings at an upper portion and an outlet at a lower portion, a plurality of inclined conveyors disposed between the inlet and the outlet such that worn road coatings are transferred from one conveyor to another in a continuous manner from the inlet to the outlet, radiant heat panels being positioned proximate to the plurality of inclined conveyors for achieving the second temperature, and an opening in the upper portion for evacuating gaseous effluents from the second enclosed chamber.